# **SENTINEL** Installation Guide



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## Welcome to Sentinel

Sentinel is a print security, cost control and management solution. Document security can be improved in an organisation by using the pull printing and secure function lock features.

You can monitor and reduce your printing costs by implementing pull printing to reduce waste, assign quotas to limit what users can print, and assign budgets to departments to give them targets to meet.

Managing printing is easier with Sentinel as it using profiles to manage settings and apply them to groups of users or printers. Mail2Print brings secure monitored printing to tablets and smartphones whilst ScanDirect enables secure scanning without the need to deploy scanner drivers.

This installation guide is intended for the Sentinel administrator. It contains instructions on how to install the Sentinel system on a server. For instructions on using the Sentinel interface, read the Sentinel Implementation Guide.



## Windows Server 2008

See <u>System Requirements</u>. To install the software on other operating systems:

- Windows Server 2003
- <u>Cluster Server</u>

### Step 1: Installing IIS

Before you can install Sentinel on a Windows Server 2008 system you must first install Microsoft IIS (Internet Information Services) software on the server:

- 1. Log in as an Administrator.
- 2. Open the Server Manager.
- 3. Right click **Roles** and select **Add Roles**. The **Add Roles Wizard** starts.
- 4. Select Web Server (IIS).
- 5. Click Role Services and under Common HTTP Features make sure Static Content is selected.
- 6. Select Application Development and make sure all its sub-options are selected.
- 7. Under Security, select Windows Authentication.
- 8. Select **IIS 6 Management Compatibility** and make sure all its sub-options are selected.
- 9. Click Next and then Install. Click Close when the installation finishes.

#### Step 2: Installing Sentinel

Now that IIS is installed on the server, you can install the Sentinel software:

- 1. Extract the latest version of the Sentinel software.
- 2. From the extracted Sentinel software folder, run **setup.exe**.
- 3. Click **Install Sentinel** and follow the instructions on the screen until you see the **Select Installation Address** screen.
- 4. For Application Pool, select ASP.NET v4.0 Classic.
- 5. Click **Next.** Follow the instructions until **Welcome to the Sentinel configuration wizard!** appears.
- 6. Click Next. Follow the instructions until the installer prompts you to select your database.
- 7. Select **DB** type
- 8. For SQL DB Enter DB details.
- 9. Click Test Connection, verify it is OK and click Next.
- 10. Continue until the Printer Monitoring screen appears. Close it.
- 11. When the **Installation Complete** screen appears, click **Close**. Sentinel is installed.



If necessary, see the <u>Troubleshooting</u> section. Otherwise, you are ready to start using the Sentinel software. Refer to the Sentinel Implementation Guide for detailed step-by-step instructions.



## Windows Server 2003

See <u>System Requirements</u>. To install the software on other operating systems:

- Windows Server 2008
- <u>Cluster Server</u>

#### Step 1: Installing IIS

Before you can install Sentinel on a Windows Server 2003 system you must first install Microsoft's IIS (Internet Information Services) software on the server:

- 1. Log in as an Administrator.
- 2. Open Manage Your Server.
- 3. Click Add or remove a role. The Configure Your Server Wizard starts.
- 4. Click Next and then select Application server (IIS, ASP.NET) and click Next.
- 5. Select Enable ASP.NET and click Next.
- 6. Check the summary and click Next. When the installation is complete, click Finish.

#### Step 2: Installing Sentinel

Now that IIS is installed on the server, you can install the Sentinel software:

- 1. Extract the latest version of the Sentinel software.
- 2. From the extracted Sentinel software folder, run setup.exe.
- 3. Click <u>Install Sentinel and</u> follow the instructions on the screen until you see the **Select Installation Address** screen.
- 4. In the Application Pool check that DefaultAppPool is selected.
- 5. Click **Next.** Follow the instructions until **Welcome to the Sentinel configuration wizard!** appears.
- 6. Click Next. Follow the instructions until the installer prompts you to select your database.
- 7. Select **DB** type
- 8. For SQL DB Enter DB details.
- 9. Click Test Connection, verify it is OK and click Next.
- 10. Continue until the Printer Monitoring screen appears. Close it.
- 11. When the **Installation Complete** screen appears, click **Close**. Sentinel is installed.

If necessary, see the <u>Troubleshooting</u> section. Otherwise, you are ready to start using the Sentinel software. Refer to the Sentinel Implementation Guide for detailed step-by-step instructions.



## **Cluster Server**

See <u>System Requirements</u>. To install the software on other operating systems:

- Windows Server 2008
- Windows Server 2003

### Step 1: Installing IIS

- 1. Install IIS on both nodes as explained for Windows 2008.
- 2. On the cluster's shared directory (default drive R) of the cluster server, create two folders:
  - To store the print job spooling: R:\Sentinel\Queue.
  - To store the intranet web interface files: R:\SentinelWeb.
- 3. Add a new site in IIS for use by the Sentinel management interface. Name the new site **Sentinel**. Specify port **8080**.
- 4. Specify the site's home directory as **R:\SentinelWeb** and set full access permissions for this site.
- 5. Verify that the new **Sentinel** site appears in the IIS manager, under **Computer management**. **NOTE**: It is recommended to use MS SQL when Sentinel is installed on a server cluster, although the initial setting of the system after installation is to work with MS Access.

#### Step 2: Installing Sentinel

Run Sentinel system setup as described for <u>Windows 2008</u>. Run setup on each of the cluster's nodes.

**NOTE**: The only difference from a single server installation is that the site name for installing the management interface is **Sentinel**. Do not use the **Default Web Site** option.

- Connect the system to the database by setting the following value in the registry. This is required because the system is redirected to drive R: In registry key:
   KEY\_LOCAL\_MACHINE\SOFTWARE\Sentinel\Settings\ QueuePath set the value: R:\Sentinel\Queue\. Repeat for each node.
- Connect both nodes as a cluster: Open the Sentinel web page by selecting Start → All Programs → Sentinel → Sentinel web page. Go to Settings -> Behaviour-> Other and define the cluster name.
- 4. Use MS Cluster Manager to define the Sentinel service as a resource. Name the resource as **Sentinel**.
- 5. Define the synchronization between the cluster nodes:
  - Specify the service name as **Sentinel**.
  - Set the root registry key to **SOFTWARE\Sentinel**.
- 6. Manually add the Sentinel print processor to the cluster virtual printing by copying the file **Sentinel.dll** to the print processor DLL folder and adding the print processor registry keys.



If necessary, see the <u>Troubleshooting</u> section. Otherwise, you are ready to start using the Sentinel software. Refer to the Sentinel Implementation Guide for detailed step-by-step instructions.

## Troubleshooting

This section covers errors or problems that can arise during installation of Sentinel. If the suggested solution does not solve the problem, or if you experience a problem not listed here, contact your Sentinel technical support provider.

For explanations related to daily Sentinel operation, refer to the on-line help in the software by pressing the Help icon 😟 or the Troubleshooting section in the Sentinel Implementation Guide.

Service unav	Service unavailable error (domain controller)				
Symptoms	When trying to start the Sentinel web page, you get the error: "Service Unavailable".				
Cause	This may occur if the server running Microsoft Internet Information Services (IIS) 6.0 is also a domain controller. The problem occurs because the Application pool is using the <b>NT Authority\Network Service</b> account, and the account does not have permission to access the required folders.				
Resolution	Manually set permissions on the folders for the <b>IIS_WPG</b> group, and then set				
	permissions on the folders for the NT Authority\Network Service account.				
	To set permissions on the folders for the <b>IIS_WPG</b> group and the <b>NT</b>				
	Authority\Network Service account:				
	1. Start Windows Explorer, and then open the				
	folder <b>%systemroot%\Help\lisHelp</b> .				
	2. In the right pane, right click the <b>Common</b> folder, and click <b>Sharing and</b>				
	Security. 2 Click the Security tab. click Add type US_WPG, and click OK				
	A With IIS WPG selected select the following checkboxes under the Allow				
	column and click <b>OK</b> .				
	Read and Execute				
	List Folder Contents				
	Read				
	5. Repeat the previous step with <b>NETWORK SERVICE</b> instead of IIS WPG.				
	6. Open the folder <b>%systemroot%\system32\inetsrv</b> . In the right pane, right				
	click the ASP Compiled Templates folder, and click Sharing and Security.				
	<ol><li>Click the Security tab, click the IIS_WPG group, and select the Full Control</li></ol>				
	checkbox under the <b>Allow</b> column. Click <b>OK</b> .				
	8. Repeat the above step with <b>NETWORK SERVICE</b> instead of IIS_WPG.				
	9. Open the folder <b>%systemroot%</b> . In the right pane, right click the <b>IIS</b>				
	Temporary Compressed folder, and click Sharing and Security.				
	10. Click the <b>Security</b> tab, click the <b>IIS_WPG</b> group, and select the <b>Full Control</b> shockbox under the <b>Allow</b> column. Click <b>OK</b>				
	11 Repeat the previous step with <b>NETWORK SERVICE</b> instead of <b>US_W/PG</b>				
	12 Restart the <b>IIS Admin</b> service from the <b>Services</b> snan-in or from the				
	Computer Management snap-in.				
HTTP Error 4	04: File or Directory not found (Windows 2003)				
Symptoms	When trying to start the Sentinel web page, you get the error: "HTTP Error 404: File				
	or Directory not found".				
Cause	By default, when IIS is installed on any version of the Windows Server 2003 family,				

IIS only serves static content (HTML).



Resolution	First check that IIS is running, and Default Web Site is not stopped. If it is runnin				
	and you need to permit IIS to serve content that requires a specific ISAPI or CGI				
	extension that is already listed in the Web service extensions list, follow these				
	steps:				
	1. Open IIS Manager, expand the master server node (i.e., the <b>Servername</b>				
	node), and then select the <b>Web service extensions</b> node.				
	2. In the right pane of IIS Manager, make sure that the Active Server Pages				
	extension is allowed and that the ASP.NET v4 is allowed.				
	3. Reset the his service by typing <b>HSRESET</b> in the command line.				
Configuratio	4. In his Wanager, check that Deladit web Site is started.				
Configuratio	n file processing error (windows 2008)				
Symptoms	ns When trying to start the Sentinel web page, you get the error: "An error occurred				
<b>0</b>	during the processing of a configuration file required to service this request.				
Cause	These settings were not configured automatically by the Sentinel Installation.				
Resolution	1. Run Internet Information Services (IIS) Manager, expand the tree for your				
	server name, and click <b>Applications Pools</b> to display the list of application				
	pools on the server.				
	2. Right click ASP.NET v4.0 Classic and select Advanced Settings.				
	3. Make sure that <b>Enable 32-Bit Applications</b> is set to <b>True</b> .				
	4. Make sure that <b>Managed Pipeline Mode</b> is set to <b>Classic</b> .				
	5. Close the Internet Information Services (IIS) Manager.				
Configuratio	5. Close the Internet Information Services (IIS) Manager. n file processing error (DotNet)				
Configuratio Symptoms	<ul> <li>5. Close the Internet Information Services (IIS) Manager.</li> <li>In file processing error (DotNet)</li> <li>When trying to start the Sentinel web page, you get the error: "An error occurred</li> </ul>				
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Resolution	Microsoft IIS installation:		
	1. Log in as a user with administrator privileges.		
	NOTE: To use Sentinel on a Windows 7 operating system, the user name		
	must have a password defined (it cannot be blank).		
	2. In the Control Panel, click Programs, and select Turn Windows features on		
	or off.		
	The Windows features screen appears.		
	<ol><li>Select Internet Information Services and expand it.</li></ol>		
	<ol><li>Select Web Management Tools and expand it.</li></ol>		
	5. Select IIS 6 Management Compatibility and make sure that all its sub-		
	options are selected.		
	6. Under World Wide Web Services, select Application Development		
	Features, and ensure that all its sub-options are selected.		
	7. In the Security option, select Windows Authentication.		
	8. Click <b>OK</b> and wait for Windows 7 to make the necessary changes. Close the		
	Control Panel.		
	9. Install Sentinel in the same manner as for Windows 2008.		
Default web	site is used by another application on the server (port 80)		
Symptoms	When logging in to the Sentinel web page, you receive another application or an		
	error related to other application.		
Cause	When installing Sentinel, the default installation option is to the Default Web Site,		
	and the default port is <b>80</b> (the standard web port). If this website or port is already		
	in use by another application, there may be a collision between the applications,		
	and the Sentinel web page will not appear.		
Resolution	Install Sentinel on a new website with a different port number as follows:		
	1. Open the IIS Manager and add a new website.		
	2. Click <b>Next</b> and in the following screen type the name of the site ( <b>Sentinel</b> ).		
	Click Next.		
	3. Change the port number for the new website to a new port (for example,		
	81). Click Next.		
	<ol><li>Type the path to the root of the new website (c:\inetpub\wwwroot) and</li></ol>		
	click <b>Next</b> .		
	5. Allow all access permissions and click <b>Next</b> .		
	6. Confirm the warning message and click <b>Finish</b> .		
	7. Uninstall Sentinel from Add/Remove Programs.		
	8. Start the Sentinel setup program to reinstall it. In <b>Select Installation</b>		
	Address, from the Site list, select Sentinel (not the Default Web Site).		
	9. Install Sentinel.		
	10. When opening the Sentinel web page in a browser, ensure you are using		
	the correct port to the website; for example: http://localhost:81/Sentinel.		
Jobs are not	printed after correct installtion		
Symptoms	Printing jobs are not printed.		
Cause	Sentinel service is not running		
Resolution	Start Services. Make sure that the Sentinel service is running and that the Startup		
	Type is set to Automatic		

For more assistance with problems that may arise while operating Sentinel, see the Troubleshooting section in the Sentinel Implementation Guide.

## System Requirements

These are the basic requirements for operating the Sentinel system.

Component	Requirement
Operating system for Sentinel	One of the following:
software	Windows Server 2012
	Windows Server 2008
	Windows Server 2003
	Microsoft Cluster Server
Operating system for clients	Windows XP or higher
Web browser	One of the following:
	Internet Explorer (IE) 6 or higher
	• Firefox 7 or higher
	Chrome 8 or higher
Database	<ul> <li>Local database for testing and small environments</li> </ul>
	<ul> <li>Microsoft SQL Server for production and large</li> </ul>
	environments
	The database requires a minimum of 100MB but will expand in
	size as Sentinel is used
Available Disk Space	Minimum: 10GB or greater
IIS	Yes
.NET framework 2.0	Yes
.NET framework 4.0	Yes or higher
Port to Open	TCP Port
	• 515
	UPD Port
	• 7001
	• 7002
	• 65535